

AMENDMENTS TO THE DRAWINGS:

A new drawing figure is submitted adding Figure 8 to the drawings.

REMARKS

The application has been amended to place the application in condition for allowance at the time of the next Official Action.

The specification is amended consistent with the drawing figures. No new matter is added.

A new drawing figure labeled Figure 8 is submitted that shows an embodiment of the recited process as disclosed on page 10, lines 8-19.

The above change is believed sufficient to address the drawing objections noted in the Official Action. The above-noted change to the drawings is the only change and is believed not to introduce new matter.

Claims 1-20 are pending in the application.

Claim 8 is amended to change "the process" to "a process" to address the 35 USC 112 rejection noted on page 3 of the Official Action.

As to the rejection under 35 USC 101, applicant notes that the interim guidelines for determining patent eligible subject matter should be followed.

These guidelines provide that a computer related invention must produce a tangible and concrete result.

The independent claims are amended and recite displaying (or means to display) geological horizons determined based on the parametric coefficients. Support for the new

language may be found, for example, on page 3, lines 29-30 and page 12, lines 19-25.

Such display is considered a tangible and concrete result under the guidelines. Accordingly, the claims are believed to be directed to patent eligible subject matter and the 35 USC 101 rejection should be withdrawn.

In view of the present amendment and the foregoing remarks, it is believed that the present application has been placed in condition for allowance. Reconsideration and allowance are respectfully requested.

If the Examiner deems that the present amendment does not place the application in condition for allowance, the Examiner is respectfully requested to contact the below named attorney to discuss the application.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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LM/lrs

APPENDIX:

The Appendix includes the following item:

- a new drawing Figure 8